

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	03/30/2016 03/30/2016	Maksim Khashchuk

LM Start		Rating **	M	Issue No.	5
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_RD2031_01_s _ 2013_5				
Comment Code					
Inspector Comment					
LMA has a flood response plan.					

No Photos

LM Start		Rating **	A	Issue No.	6
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_RD2031_01_s _ 2013_6				
Comment Code					
Inspector Comment					
Supplies available on-site.					

No Photos

LM Start		Rating **	A	Issue No.	12
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_RD2031_01_s _ 2013_12				
Comment Code					
Inspector Comment					
O&M Manual available at the office.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 Stanislaus River	Left	7.07	03/30/2016 03/30/2016	Maksim Khashchuk

LM Start	0.45	Rating **	M	Issue No.	1
LM End	0.48	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.704740 °	37.704740 °
				-121.159140 °	-121.159140 °
DWR ID	DWR_RD2031_01_s _ 2016_1				

Comment Code

Inspector Comment

08/28/2015: No significant change observed.
 07/31/2014: No significant change observed.
 09/10/2013: No significant change observed.
 07/18/2012: No significant change observed.
 08/18/2011: No significant change observed on site. Debris that blocks the irrigation outlet is visible.
 10/19/2010: No significant change observed on site. Sloughing of the bank is occurring adjacent to an irrigation outlet structure. There is moderate to heavy vegetation along the bank that is well established. Broken chunks and slabs of concrete are used as rip rap and line the outside of the irrigation outlet structure. However, much of the rip rap along the slope is sloughing and could possibly lead to future slope instability.
 08/05/2010: Recommended as a local maintenance issue, per CLRO.
 08/20/2009: No major change observed since last visit; 1 inch fissure cracks developing on the slope; rip rap is showing signs of sloughing; recommend as local maintenance issue; site was previously rated "U".
 2008: No change from previous year; irrigation outlet located on site; rip rap placed on river bank.
 09/06/2007: Near agricultural diversion; only 3' landside height differential. [2015 Site ID:RD2031U01RM0.48]

LM Start	0.45	Rating **	M	Issue No.	1 (cont)
LM End	0.48	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : SP_2016_RD2031_307_1_20160229_00001.jpg



Looking down at the site.

Photo 2 of 3 : SP_2016_RD2031_307_1_20160229_00002.jpg



View of the current condition of the bank slope just above the irrigation outlet.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Unit No. 01 Stanislaus River	Left	7.07	03/30/2016 03/30/2016	Maksim Khashchuk

LM Start	0.45	Rating **	M	Issue No.	1 (cont)	
LM End	0.48	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR Erosion Survey			37.704740 °	37.704740 °	
				-121.159140 °	-121.159140 °	
DWR ID	DWR_RD2031_01_s _ 2016_1					
Comment Code						
Inspector Comment						
08/28/2015: No significant change observed.						
07/31/2014: No significant change observed.						
09/10/2013: No significant change observed.						
07/18/2012: No significant change observed.						
08/18/2011: No significant change observed on site. Debris that blocks the irrigation outlet is visible.						
10/19/2010: No significant change observed on site. Sloughing of the bank is occurring adjacent to an irrigation outlet structure. There is moderate to heavy vegetation along the bank that is well established. Broken chunks and slabs of concrete are used as rip rap and line the outside of the irrigation outlet structure. However, much of the rip rap along the slope is sloughing and could possibly lead to future slope instability.						
08/05/2010: Recommended as a local maintenance issue, per CLRO.						
08/20/2009: No major change observed since last visit; 1 inch fissure cracks developing on the slope; rip rap is showing signs of sloughing; recommend as local maintenance issue; site was previously rated "U".						
2008: No change from previous year; irrigation outlet located on site; rip rap placed on river bank.						
09/06/2007: Near agricultural diversion; only 3' landside height differential. [2015 Site ID:RD2031U01RM0.48]						

Photo 3 of 3 : SP_2016_RD2031_307_1_20160229_00003.jpg



View of the loose material at the bank top.

LM Start	0.48	Rating **	M	Issue No.	2
LM End	0.51	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.704385 °	37.704050 °
				-121.159217 °	-121.159578 °
DWR ID	DWR_RD2031_01_s_2012_2				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove vegetation 20 feet away from the levee crown.					

Photo 1 of 2 : SP_2016_RD2031_307_2_20160229_00004.jpg



View of vegetation on waterside slope. Facing upstream.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

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Unit No. 01 Stanislaus River	Left	7.07	03/30/2016 03/30/2016	Maksim Khashchuk

LM Start	0.48	Rating **	M	Issue No.	2 (cont)	
LM End	0.51	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			37.704385 °		37.704050 °
				-121.159217 °		-121.159578 °
DWR ID	DWR_RD2031_01_s_2012_2					
Comment Code						
V2 : Remove the wild growth other than native grasses from the levee slopes.						
Inspector Comment						
Remove vegetation 20 feet away from the levee crown.						

Photo 2 of 2 : SP_2016_RD2031_307_2_20160229_00005.jpg



10/26/2011 Updated photo of waterside vegetation.

LM Start	0.77	Rating **	M	Issue No.	36
LM End	0.77	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.701177 °	37.701177 °
				-121.162055 °	-121.162055 °
DWR ID	DWR_RD2031_01_f_2012_36				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD2031_307_36_20160229_00018.jpg



View of rodent burrows on landside slope.

LM Start	0.91	Rating **	C	Issue No.	49
LM End	0.91	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.699790 °	37.699790 °
				-121.163730 °	-121.163730 °
DWR ID	DWR_RD2031_01_s_2015_49				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	03/30/2016 03/30/2016	Maksim Khashchuk

LM Start	1.00	Rating **	M	Issue No.	59
LM End	1.00	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.699327 °	37.699327 °
				-121.165364 °	-121.165364 °
DWR ID	DWR_RD2031_01_f_2014_59				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 2 : SP_2016_RD2031_307_59_20160412_00081.jpg



View of the multiple rodent holes on the landside levee slope.

LM Start	1.00	Rating **	M	Issue No.	59 (cont)
LM End	1.00	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP_2016_RD2031_307_59_20160412_00082.jpg



Another view of the rodent hole on the landside levee slope.

LM Start	1.14	Rating **	C	Issue No.	128
LM End	1.14	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.698873 °	37.698873 °
				-121.167785 °	-121.167785 °
DWR ID	DWR_RD2031_01_s_2014_128				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

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Unit No. 01 Stanislaus River	Left	7.07	03/30/2016 03/30/2016	Maksim Khashchuk

LM Start	1.49	Rating **	M	Issue No.	54
LM End	1.49	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.699554 °	37.699554 °
				-121.173417 °	-121.173417 °
DWR ID	DWR_RD2031_01_f_2015_54				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD2031_307_54_20160229_00029.jpg



View of the multiple rodent holes on the waterside levee slope.

LM Start	1.56	Rating **	U	Issue No.	3
LM End	1.56	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.698776 °	37.698776 °
				-121.174327 °	-121.174327 °
DWR ID	DWR_RD2031_01_s_2012_3				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Erosion is active around the irrigation standpipe.					

Photo 1 of 2 : SP_2016_RD2031_307_3_20160229_00006.jpg



View of the erosion site on landside slope, facing upstream.

LM Start	1.56	Rating **	U	Issue No.	3 (cont)
LM End	1.56	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP_2016_RD2031_307_3_20160229_00007.jpg



10/26/2011 Active erosion into the levee prism around irrigation standpipe.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	03/30/2016 03/30/2016	Maksim Khashchuk

LM Start	1.58	Rating **	U	Issue No.	8
LM End	1.58	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.698610 °	37.698610 °
				-121.174598 °	-121.174598 °
DWR ID	DWR_RD2031_01_s_2012_8				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Active erosion is occurring around irrigation inlet.					

Photo 1 of 1 : SP_2016_RD2031_307_8_20160229_00012.jpg



10/26/2011 Active erosion shown around irrigation inlet.

LM Start	1.62	Rating **	U	Issue No.	52
LM End	1.62	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.698334 °	37.698334 °
				-121.175176 °	-121.175176 °
DWR ID	DWR_RD2031_01_f_2013_52				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 2 : SP_2016_RD2031_307_52_20160229_00026.jpg



View of the multiple large rodent hole in the waterside levee slope.

LM Start	1.62	Rating **	U	Issue No.	52 (cont)
LM End	1.62	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2016_RD2031_307_52_20160229_00027.jpg



Another view of the rodent holes on the waterside levee slope.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	03/30/2016 03/30/2016	Maksim Khashchuk

LM Start	1.63	Rating **	U	Issue No.	9
LM End	1.63	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.698208 °	37.698208 °
				-121.175400 °	-121.175400 °
DWR ID	DWR_RD2031_01_s _ 2012_9				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Active erosion around irrigation inlet in levee prism.					

Photo 1 of 1 : SP_2016_RD2031_307_9_20160229_00013.jpg



10/26/2011 Active erosion into levee prism around irrigation inlet.

LM Start	1.84	Rating **	U	Issue No.	29
LM End	1.84	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.696121 °	37.696121 °
				-121.177532 °	-121.177532 °
DWR ID	DWR_RD2031_01_s _ 2016_29				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD2031_307_29_20160412_00083.jpg



View of the tall vegetation on the landside levee slope.

LM Start	1.89	Rating **	M	Issue No.	30
LM End	2.17	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.695346 °	37.691396 °
				-121.177526 °	-121.178298 °
DWR ID	DWR_RD2031_01_s _ 2016_30				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD2031_307_30_20160412_00084.jpg



View of the vegetation on the waterside levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	03/30/2016 03/30/2016	Maksim Khashchuk

LM Start	2.00	Rating **	M	Issue No.	38
LM End	2.07	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.693720 °	37.692782 °
				-121.177527 °	-121.177642 °
DWR ID	DWR_RD2031_01_s _ 2012_38				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

No Photos

LM Start	2.62	Rating **	M	Issue No.	31
LM End	3.51	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.687141 °	37.690848 °
				-121.183150 °	-121.196022 °
DWR ID	DWR_RD2031_01_s _ 2016_31				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD2031_307_31_20160412_00086.jpg



View of the tall vegetation on the waterside levee slope.

LM Start	3.74	Rating **	U	Issue No.	33
LM End	4.25	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.689857 °	37.687689 °
				-121.199746 °	-121.205726 °
DWR ID	DWR_RD2031_01_s _ 2016_33				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Trim back woody vegetation at least 15 feet away from the landside levee toe.					

Photo 1 of 3 : SP_2016_RD2031_307_33_20160412_00088.jpg



View of the tall vegetation on the landside levee slope and toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain			

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Unit No. 01 Stanislaus River	Left	7.07	03/30/2016 03/30/2016	Maksim Khashchuk

LM Start	4.40	Rating **	M	Issue No.	42
LM End	4.40	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.686458 °	37.686458 °
				-121.207913 °	-121.207913 °
DWR ID	DWR_RD2031_01_s _ 2016_42				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	4.40	Rating **	M	Issue No.	40
LM End	4.40	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.686457 °	37.686457 °
				-121.207915 °	-121.207915 °
DWR ID	DWR_RD2031_01_s _ 2016_40				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	4.52	Rating **	U	Issue No.	43
LM End	4.52	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.684988 °	37.684988 °
				-121.208366 °	-121.208366 °
DWR ID	DWR_RD2031_01_s _ 2016_43				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD2031_307_43_20160412_00090.jpg



View of the tall vegetation on the landside levee slope and toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Unit No. 01 Stanislaus River	Left	7.07	03/30/2016 03/30/2016	Maksim Khashchuk

LM Start	5.56	Rating **	M	Issue No.	44
LM End	7.08	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.674554 °	37.661813 °
				-121.217494 °	-121.232972 °
DWR ID	DWR_RD2031_01_s_2016_44				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD2031_307_44_20160412_00091.jpg



View of the tall vegetation on the landside levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	03/30/2016 04/06/2016	Maksim Khashchuk

LM Start	0.14	Rating **	M	Issue No.	16	
LM End	1.31	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			37.659938 °		37.649387 °
				-121.233829 °		-121.221753 °
DWR ID	DWR_RD2031_02_s_2016_16					
Comment Code						
V1 : Control annual grass and weeds on the levee slopes and easements.						
Inspector Comment						

Photo 1 of 1 : SP_2016_RD2031_308_16_20160412_00033.jpg



View of the tall vegetation on the landside levee slope.

LM Start	0.14	Rating **	M	Issue No.	17
LM End	1.13	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.659937 °	37.651680 °
				-121.233827 °	-121.223243 °
DWR ID	DWR_RD2031_02_s_2016_17				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	1.41	Rating **	M	Issue No.	15
LM End	1.41	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.648080 °	37.648080 °
				-121.221031 °	-121.221031 °
DWR ID	DWR_RD2031_02_s_2013_15				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD2031_308_15_20160229_00006.jpg



View of the tree limb obstructing visibility and access to the landside levee slope.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	03/30/2016 04/06/2016	Maksim Khashchuk

LM Start	1.42	Rating **	U	Issue No.	965
LM End	1.46	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.648005 °	37.647476 °
				-121.221039 °	-121.220766 °
DWR ID	DWR_RD2031_02_s_2012_965				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Wild rose bush on landside slope.					

Photo 1 of 1 : SP_2016_RD2031_308_965_20160229_00010.jpg



Wild rose on levee slope.

LM Start	2.00	Rating **	U	Issue No.	18
LM End	2.34	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.640925 °	37.640236 °
				-121.224002 °	-121.217866 °
DWR ID	DWR_RD2031_02_s_2016_18				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD2031_308_18_20160412_00034.jpg



View of the tall vegetation on the landside levee slope.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	03/30/2016 04/06/2016	Maksim Khashchuk

LM Start	2.01	Rating **	M	Issue No.	25
LM End	2.01	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.640874 °	37.640874 °
				-121.223870 °	-121.223870 °
DWR ID	DWR_RD2031_02_f_2014_25				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD2031_308_25_20160229_00008.jpg



View of the overgrown tree obstructing visibility and access of the landside levee slope.

LM Start	2.14	Rating **	M	Issue No.	21
LM End	2.14	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.640632 °	37.640632 °
				-121.221539 °	-121.221539 °
DWR ID	DWR_RD2031_02_f_2014_21				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD2031_308_21_20160229_00007.jpg



View of overgrown vegetation on the levee crown.

LM Start	2.97	Rating **	M	Issue No.	966
LM End	3.57	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.637626 °	37.638301 °
				-121.207191 °	-121.196465 °
DWR ID	DWR_RD2031_02_s_2012_966				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Obstructive trees and vegetation along highway are on the landside slope of the levee.					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	03/30/2016 04/06/2016	Maksim Khashchuk

LM Start	4.29	Rating **	A/W	Issue No.	1
LM End	4.33	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.631716 °	37.631716 °
				-121.189370 °	-121.189370 °
DWR ID	DWR RD2031 02 s 2016 1				

Comment Code

Inspector Comment

08/19/2015: No significant change observed.
 7/17/2014: The erosion has slightly expanded toward levee toe at two pocket locations.
 09/10/2013: The site has been visited. The erosion has expanded toward levee crest at two pocket locations.
 07/18/2012: No significant change observed on the site.
 08/18/2011: No significant change observed on the site. Dead trees and animal activities are visible. The closest point of the erosion site to the levee toe is about 100 ft.
 10/19/2010: There is active scouring occurring on the bank due to the nature of the flow and the lack of armor protection. There is also a fallen log immediately downstream of where the erosion has occurred and is protruding outward, possibly creating an eddy and scouring the bank. With the remaining 100-foot wide berm, the levee prism is not yet affected. However, the bank will continue to degrade, and eventually intrude into the levee prism if no protection is put in place. Erosion site is recommended for annual assessment and monitoring during flood events. [2015 Site ID:RD2031U02RM78.7]

LM Start	4.29	Rating **	A/W	Issue No.	1 (cont)
LM End	4.33	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : SP_2016_RD2031_308_1_20160229_00001.jpg



Looking downstream.

Photo 2 of 3 : SP_2016_RD2031_308_1_20160229_00002.jpg



Close view of the pocket erosion.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	03/30/2016 04/06/2016	Maksim Khashchuk

LM Start	4.29	Rating **	A/W	Issue No.	1 (cont)	
LM End	4.33	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR Erosion Survey			37.631716°	37.631716°	
				-121.189370°	-121.189370°	
DWR ID	DWR_RD2031_02_s_2016_1					
Comment Code						
Inspector Comment						
08/19/2015: No significant change observed. 7/17/2014: The erosion has slightly expanded toward levee toe at two pocket locations. 09/10/2013: The site has been visited. The erosion has expanded toward levee crest at two pocket locations. 07/18/2012: No significant change observed on the site. 08/18/2011: No significant change observed on the site. Dead trees and animal activities are visible. The closest point of the erosion site to the levee toe is about 100 ft. 10/19/2010: There is active scouring occurring on the bank due to the nature of the flow and the lack of armor protection. There is also a fallen log immediately downstream of where the erosion has occurred and is protruding outward, possibly creating an eddy and scouring the bank. With the remaining 100-foot wide berm, the levee prism is not yet affected. However, the bank will continue to degrade, and eventually intrude into the levee prism if no protection is put in place. Erosion site is recommended for annual assessment and monitoring during flood events. [2015 Site ID:RD2031U02RM78.7]						

Photo 3 of 3 : SP_2016_RD2031_308_1_20160229_00003.jpg



Looking upstream. Note the pocket erosion.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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